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Dated: June 8, 2007

Signature: \_\_\_\_\_

(Jeffrey S. Sharp)

Docket No.: 29853/37706  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Shuyuan Zhang et al.

Application No.: 10/033,491

Confirmation No.: 9920

Filed: December 27, 2001

Art Unit: 1633

For: **METHOD FOR TREATING PATIENTS  
WITH ADENOVIRAL VECTORS**

Examiner: R. M. Kelly

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement, pursuant to 37 CFR 1.114(c), accompanies the Request for Continued Examination (37 CFR 1.114) submitted herewith.

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR

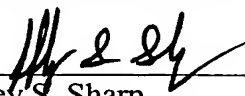
1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

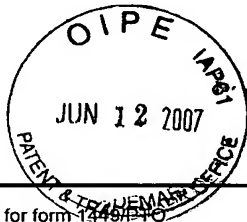
The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 29853/37706.

Dated: June 8, 2007

Respectfully submitted,

By   
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Used in Lieu of PTO/SB/08A/B  
(Based on PTO 04-07 version)

Substitute for form 1449 (Rev. 1-10-00)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
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				Filing Date	December 27, 2001
				First Named Inventor	Shuyuan Zhang
				Art Unit	1633
				Examiner Name	R. M. Kelly
Sheet	1	of	9	Attorney Docket Number	29853/37706

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-4,222,743	09-16-1980	Wang et al.	
		US-4,797,368	01-10-1989	Carter et al.	
		US-5,106,841	04-21-1992	Scheer	
		US-5,139,941	08-18-1992	Muzyczka et al.	
		US-5,173,418	12-22-1992	Molin et al.	
		US-5,221,958	06-22-1993	Bohnenkamp et al.	
		US-5,323,008	06-21-1994	Studholme et al.	
		US-5,552,309	09-03-1996	March	
		US-5,604,096	02-18-1997	Schaeffer et al.	
		US-5,623,932	04-29-1997	Ramanujam et al.	
		US-5,631,169	05-20-1997	Lakowicz et al.	
		US-5,665,546	09-09-1997	Cubbage et al.	
		US-5,670,488	09-23-1997	Gregory et al.	
		US-5,733,720	03-31-1998	Olivo	
		US-5,741,648	04-21-1998	Hemstreet, III et al.	
		US-5,789,244	08-04-1998	Heidrun et al.	
		US-5,824,544	10-20-1998	Armentano et al.	
		US-5,830,666	11-03-1998	Fujita et al.	
		US-5,932,210	08-03-1999	Gregory	
		US-5,965,358	10-12-1999	Carrion et al.	
		US-6,143,290	11-07-2000	Zhang et al.	
		US-6,143,548	11-07-2000	O'Riordan, et al.	
		US-6,168,944	01-02-2001	Condon et al.	
		US-6,194,210	02-27-2001	Leu et al.	
		US-6,261,823	07-17-2001	Tang, et al.	
		US-6,265,151	07-24-2001	Canter et al.	
		US-6,316,185	11-13-2001	Saifer, et al.	
		US-6,383,795	05-07-2002	Carrion et al.	
		US-6,447,995	09-10-2002	Carrion et al.	
		US-6,586,226-A1	07-01-2003	Carrion et al.	
		US-6,689,600	02-10-2004	Wu et al.	
		US-6,726,904-A1	04-27-2004	Krauss et al.	
		US-6,905,862-A1	06-14-2005	Blanche et al.	
		US-7,125,706-A1	10-24-2006	Zhang et al.	
		US-2002/0018723-A1	02-14-2002	Mera et al.	
		US-2002/0045160-A1	04-18-2002	Carrion et al.	
		US-2004/0106184-A1	06-03-2004	Senesac	
		US-2005/0158283-A1	07-21-2005	Zhang et al.	

FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP-0 273 085	07-06-1988	Myers		
		JP-1279843	11-10-1989	Moritsugu Yasuo		
		WO-91/09310	06-27-1991	Lidak Pharmaceuticals		
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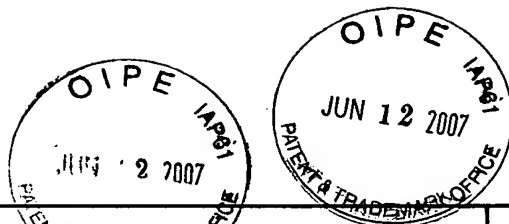
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	WO-93/18790	09-30-1993	Csataru Laszlo K	
	WO-94/26934	11-24-1994	Baxter Diagnostics Inc., et al.	
	WO-95/10601	04-20-1995	Viagene, Inc.	
	WO-95/19427	07-20-1995	Genetic Therapy, Inc.	
	WO-96/32116	10-17-1996	Inhale Therapeutic Systems	
	WO-98/22588	05-28-1998	Introgen Therapeutics, Inc.	
	WO-98/35554	08-20-1998	Canji, Inc.	
	WO-99/12568	03-18-1999	Merck & Co., Inc.	
	WO-99/41416	08-19-1999	Schering Corporation	
	WO-99/43843	09-02-1999	Johns Hopkins University School of Medicine	
	WO-99/46047	09-16-1999	Large Scale Proteomics Corporation	
	WO-99/54348	10-28-1999	Clontech Laboratories, Inc.	
	WO-99/54441	10-28-1999	Genvec, Inc.	
	WO-99/60371	11-25-1999	Geron Corporation	
	WO-00/08444	02-17-2000	Imperial Cancer Research Technology Limited	
	WO-00/32754	06-08-2000	Introgen Therapeutics, Inc.	
	WO-00/34444	06-15-2000	Genvec, Inc.	
	WO-00/40702	07-13-2000	Aventis Pharma S.A.	
	WO-02/29388	04-11-2002	Genvec, Inc.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Air Force Print News, 10/7/2004, New Adenovirus Vaccine "Top Priority", Website, Printed Out on October 27, 2004, <a href="http://www.af.mil/news/story_print.asp?storyID=123008879">http://www.af.mil/news/story_print.asp?storyID=123008879</a>	
		Arap et al., "Replacement of the p16/CDKN2 gene suppresses human glioma cell growth," Cancer Res., 55:1351-1354, 1995.	
		Baichwal and Sugden, In: Kuchelapati R, ed. Gene Transfer. New York: Plenum Press, pp. 117-148, 1986.	
		Batra et al., "IkappaBalpha gene transfer is cytotoxic to squamous-cell lung cancer cells and sensitizes them to tumor necrosis factor-alpha-mediated cell death," Am. J. Respir. Cell Mol. Biol., 21:238-245, 1999.	
		Benvenisty et al., "Direction introduction of genes into rats and expression of the genes," Proc. Nat'l Acad. Sci. USA, 83:9551-9555, 1986.	
		Blackwell et al., "Retargeting to EGFR enhances adenovirus infection efficiency of squamous cell carcinoma," Arch. Otolaryngol Head Neck Surg., 125:856-863, 1999.	
		Bramble, "Fluorescence Spectroscopy as an Aid to Imaging Latent Fingermarks in the Ultraviolet," Forensic Sci., 41:1038-1041 (1996).	
Examiner Signature			Date Considered

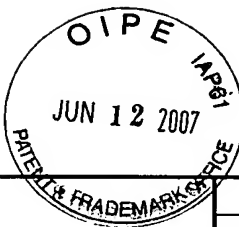


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		Examiner Name	R. M. Kelly		
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	Brock et al., "Rapid Characterization of Green Fluorescent Protein Fusion Proteins on the Molecular and Cellular Level by Fluorescence Correlation Microscopy" <i>Proc. Natl. Acad. Sci. USA</i> , 96:10123-10128 (1999).	
	Bussemakers et al., "Decreased expression of E-cadherin in the progression of rat prostatic cancer," <i>Cancer Res.</i> , 52:2916-2922, 1992.	
	Butman et al., "High Sensitivity HPLC Method for Determining Viral Particle Concentration" Presentation (2000)	
	Caldas et al., "Frequent somatic mutations and homozygous deletions of the p16 (MTS1) gene in pancreatic adenocarcinoma," <i>Nat. Genet.</i> , 8:27-32, 1994.	
	Carrion et al., "Intrinsic Fluorescence of Adenovirus Type 5: A Sensitive Detection Alternative" <i>Molecular Therapy</i> , 3(5): 438, Part 2 of 2 Parts (2001).	
	Cartwright, "Fermenter design for animal cell cultures," <i>Animal Cells as Bioreactors</i> , Cambridge University Press, 58-63, 1994.	
	Carver et al., "Transgenic livestock as bioreactors: stable expression of human alpha-1-antitrypsin by a flock of sheep," <i>Biotechnology NY</i> , 11:1263-1270, 1993.	
	Casey et al., "Growth suppression of human breast cancer cells by the introduction of a wild-type p53 gene," <i>Oncogene</i> , 6:1791-1797, 1991.	
	Centers for Disease Control and Prevention, Adenoviruses, Website, Printed Out on October 27, 2004, <a href="http://www.cdc.gov/ncidod/dvrd/revb/respiratory/eadfeat.htm">http://www.cdc.gov/ncidod/dvrd/revb/respiratory/eadfeat.htm</a>	
	Chapeaurouge et al., "Folding Intermediates of a Model Three-Helix Bundle Protein," <i>J. Biol. Chem.</i> , 276:14861-14866 (2001).	
	Chen et al., "High-efficiency transfection of mammalian cells by plasmid DNA," <i>Mol. Cell Biol.</i> , 7:2745-2752, 1987.	
	Cheng et al., "p16 Alterations and deletion mapping of 9p21-p22 in malignant mesothelioma," <i>Cancer Res.</i> , 54:5547-5551, 1994.	
	Cheung et al., "Cell-CAM105 isoforms with different adhesion functions are coexpressed in adult rat tissues and during liver development," <i>J. Biol. Chem.</i> , 268:6139-6146, 1993.	
	Cheung et al., "Structure and function of C-CAM1," <i>J. Biol. Chem.</i> , 268(32):24303-24310, 1993.	
	Cheung et al., "the cytoplasmic domain of C-CAM is required for C-CAM-mediated adhesion function: studies of a C-CAM transcript containing an unspliced intron," <i>Biochem. J.</i> , 295:427-435, 1993.	
	Chillon et al., "Group D adenoviruses infect primary central nervous system cells more efficiently than those from Group C," <i>J. Virol.</i> , 73:2537-2540, 1990.	
	Chroboczek et al., "The sequence of the genome of adenovirus Type 5 and its comparison with the genome of adenovirus Type 2," <i>Virology</i> , 186:280-285, 1992.	
	Cite et al., "Study of Adenovirus Production in Serum-Free 293SF Suspension Culture by GFP-Expression Monitoring" <i>Biotechnol. Prog.</i> , 1997, 13, 709-714, Biotechnology Research Institute, National Research Council Canada, 6100 Royalmount Avenue, Montreal, Quebec, Canada H4P 2R2, S8756-7938(97)00110-0 CCC, 1997 American Chemical Society and American Institute of Chemical Engineers.	
	Coffin, "Retroviridae and their application," In: <i>Virology</i> , Fields et al. (eds.), New York: Raven Press, pp. 1437-1500, 1990.	
	Corveleyn et al., "Maltodextrins as lyoprotectants in the lyophilization of a model protein, LDH," <i>Pharm. Res.</i> , 13:146-150, 1996.	
	Coupar et al., "A general method for the construction of recombinant vaccinia virus expressing multiple foreign genes," <i>Gene</i> , 68:1-10, 1988.	
	Cristiano et al., "Viral and nonviral gene delivery vectors for cancer gene therapy," <i>Cancer Detect Prev.</i> , 22:445-454, 1998.	

Examiner Signature		Date Considered	
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Used in Lieu of PTO/SB/08A/B  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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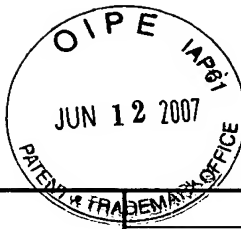
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Sheet	4	of	9
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	Croyle et al., "Factors that influence stability of recombinant adenoviral preparations for human gene therapy," Pharm. Dev. Technol, 3(3):373-383, 1998.	
	Declaration of Peter Clark, Ph.D.: submitted in European Patent Application No. 97950677.1.	
	Deniz et al., "Single-Pair Fluorescence Resonance Energy Transfer on Freely Diffusing Molecules: Observation of Forster Distance Dependence and Subpopulations," Proc. Natl. Acad. Sci. USA, 96:3670-3675 (1999).	
	Denk et al., "Two-Photon Laser Scanning Fluorescence Microscopy," Science, 248:73-76 (1990).	
	Dickson et al., "On/Off Blinking and Switching Behaviour of Single Molecules of Green Fluorescent Protein," Nature, 388:355-358 (1997).	
	Dorai et al., "A recombinant defective adenoviral agent expressing anti-bcl-2 ribozyme promotes apoptosis of bcl-2-expressing human prostate cancer cells," Int. J. Cancer, 82:846-852, 1999.	
	Dubensky et al., "Direct transfection of viral and plasmid DNA into the liver or spleen of mice," Proc. Nat. Acad. Sci. USA, 81:7529-7533, 1984.	
	Edelman et al., "Cell adhesion molecules: implications for a molecular histology," Annu. Rev. Biochem., 60:155-190, 1991.	
	Edelman, "Cell adhesion and the molecular processes of morphogenesis," Annu. Rev. Biochem., 54:135-169, 1985.	
	Eggeling et al., "Monitoring Conformational Dynamics of a Single Molecule by Selective Fluorescence Spectroscopy," Proc. Natl. Acad. Sci. USA, 95:1556-1561 (1998).	
	Fechheimer et al., "Transfection of mammalian cells with plasmid DNA by scrape loading and sonication loading," Proc. Nat. Acad. Sci. USA, 84:8463-8467, 1987.	
	Feldman et al., "Perspectives of arterial gene therapy for the prevention of restenosis," Cardiovasc. Res., 32:194-204, 1996.	
	Ferkol et al., "Regulation of the phosphoenolpyruvate carboxykinase/human factor IX gene introduced into the livers of adult rats by receptor-mediated gene transfer," FASEB J., 7:1081-1091, 1993.	
	Fraley et al., "Entrapment of a bacterial plasmid in phospholipid vesicles: potential for gene transfer," Proc. Nat. Acad. Sci. USA, 76:3348-3352, 1979.	
	Freshney, "Animal Cell Culture: a Practical Approach," Second Edition, Oxford/New York, IRL Press, Oxford University Press, 1992.	
	Fried et al., "Factors that affect the stability of protein-DNA complexes during gel electrophoresis," Electrophoresis, 18:6-11, 1997.	
	Frixen et al., "E-cadherin-mediated cell-cell adhesion prevents invasiveness of human carcinoma cells," J. Cell Biol., 113:173-185, 1991.	
	Ghosh and Bachhawat, In: Liver Disease, Targeted Diagnosis and Therapy using Specific Receptors and Ligands, Wu G, Wu C (eds.), Marcel Dekker, New York, pp. 87-104, 1991.	
	Giancotti et al., "Elevated levels of the 5 1 fibronectin receptor suppress the transformed phenotype of Chinese hamster ovary cells," Cell, 60:849-859, 1990.	
	Gopal, "Gene transfer method for transient gene expression, stable transfection, and cotransfection of suspension cell cultures," Mol. Cell Biol., 5:1188-1190, 1985.	
	Graham et al., "Methods for construction of adenovirus vectors," Mol. Biotechnol., 3:207-220, 1995.	
	Graham et al., "A new technique for the assay of infectivity of human adenovirus 5 DNA," Virology, 52:456-467, 1973.	
	Ha et al., "Single-Molecule Fluorescence Spectroscopy of Enzyme Conformational Dynamics and Cleavage Mechanism," Proc. Natl. Acad. Sci. USA, 96:893-898 (1999).	
	Hall et al., "Stabilizing effect of sucrose against irreversible denaturation of rabbit muscle	

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		lactate dehydrogenase," Biophys. Chem., 57:47-54, 1995.	
		Harland et al., "Translation of mammalian mRNA injected into Xenopus oocytes is specifically inhibited by antisense RNA," J. Cell Biol., 101:1094-1099, 1985.	
		Haupts et al., "Dynamics of Fluorescence Fluctuations in Green Fluorescent Protein Observed by Fluorescence Correlation Spectroscopy," Proc. Natl. Acad. Sci., USA, 95:13573-13578 (1998).	
		Herman et al., "The effect of bulking agent on the solid-state stability of freeze-dried methylprednisolone sodium succinate," Pharm. Res., 11:1467-1473, 1994.	
		Hermens et al., "Viral vectors, tools for gene transfer in the nervous system," Prog. Neurobiol., 55:399-432, 1998.	
		Hermonat et al., "Use of adenoassociated virus as a mammalian DNA cloning vector: Transduction of neomycin resistance into mammalian tissue culture cells," Proc. Nat. Acad. Sci. USA, 81:6466-6470, 1984.	
		Hollstein et al., "p53 mutations in human cancers," Science, 253:49-53, 1991.	
		Hurwitz et al., "Suicide gene therapy for treatment of retinoblastoma in a murine model," Human Gene Therapy, 10:441-448, 1999.	
		Hussussian et al., "Germline p16 mutations in familial melanoma," Nature Genetics, 8(1):15-21, 1994.	
		Irie et al., "Therapeutic efficacy of an adenovirus-mediated anti-H-ras ribozyme in experimental bladder cancer," Antisense Nucleic Acid Drug Dev., 9:341-349, 1999.	
		Ishibashi et al., "Hypercholesterolemia in low density lipoprotein receptor knockout mice and its reversal by adenovirus-mediated gene delivery," J. Clin. Invest., 92:883-893, 1993.	
		Jardon et al., "PH, pCO <sub>2</sub> , and temperature effect on R-adenovirus production," Biotechnol. Prog., 19:202-208, 2003.	
		Jiang et al., "The melanoma differentiation associated gene mda-7 suppresses cancer cell growth," Proc. Nat. Acad. Sci. USA, 93:9160-9165, 1996.	
		July 17, 2006: Minutes of Oral Proceedings Before the Examining Division with decision to grant European Patent Application No. 97950677.1.	
		Kamb et al., "A cell cycle regulator potentially involved in genesis of many tumor types," Science, 264:436-440, 1994.	
		Kamb et al., "Analysis of the p16 gene (CDKN2) as a candidate for the chromosome 9p melanoma susceptibility locus," Nature Genetics, 8:22-26, 1994.	
		Kaneda et al., "Increased expression of DNA cointroduced with nuclear protein in adult rat liver," Science, 243:375-378, 1989.	
		Kato et al., "Expression of hepatitis b virus surface antigen in adult rat liver," J. Biol. Chem., 266:3361-3364, 1991.	
		Keay et al., "Autoclavable Low Cost Serum-Free Cell Culture Media: The Growth of Established Cell Lines and Production of Viruses," Biotechnology and Bioengineering, 18:363-382 (1976).	
		Klein et al., "High-velocity microprojectiles for delivering nucleic acids into living cells," Nature, 327:70-73, 1987.	
		Koltermann et al., "Rapid Assay Processing by Integration of Dual-Color Fluorescence Cross-Correlation Spectroscopy: High Throughput Screening for Enzyme Activity," Proc. Natl. Acad. Sci. USA, 95:1421-1426 (1998).	
		Kotani et al., "Improved methods of retroviral vector transduction and production for gene therapy," Human Gene Therapy, 5:19-28, 1994.	
		Kozak et al., "Transmissible Spongiform Encephalopathies (TSE): Minimizing the Risk of Transmission of Biological/Biopharmaceutical Products: An Industry Perspective," Developments in Biological Standardization, 88:257-264 (1996).	

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Sheet	6	of	9		

	Kraft et al., "Cell cycle-dependent multiplications of avian adenovirus in chicken embryo fibroblasts," Archives of Virology, 57:243-254, 1978.	
	Lesch, "Gene transfer to the brain: emerging therapeutic strategy in psychiatry?," Biol. Psychiatry, 45:247-253, 1999.	
	Lin et al., "Cloning and expression of a cDNA coding for a rat liver plasma membrane ecto-ATPase," J. Biol. Chem., 264:14408-14414, 1989.	
	Lippitz et al., "Two-Photon Excitation Microscopy of Tryptophan-containing Proteins" PNAS, 99(5):2772-2777 (2002).	
	Lu et al., "Coat protein interactions involved in tobacco mosaic tobamovirus cross-protection," Virology, 248:188-198, 1998.	
	Lu et al., "Single-Molecule Enzymatic Dynamics," Science, 282:1877-1882 (1998).	
	Lueckel et al., "Formulations of sugars with amino acids or mannitol-influence of concentration ratio on the properties of the freeze-concentrate and the lyophilizate," Pharm. Dev. Technol., 3:326-336, 1998.	
	Maiti et al., "Measuring Serotonin Distribution in Live Cells with Three-Photon Excitation," 275:530-532 (1997).	
	Marienfeld et al., "Autoreplication of the vector genome in recombinant adenoviral vectors with different E1 region deletions and transgenes," Gene Ther., 6:1101-1113, 1999.	
	Massie et al., "Improved Adenovirus Vector Provides Herpes Simplex Virus Ribonucleotide Reductase R1 and R2 Subunits Very Efficiently" Biotechnology, Vol. 13; 602-608, June 1995, Institute of Research in Biotechnology, Montreal, Quebec, Canada H4P 2R2; Institute of Cancer of Montreal, Quebec, Canada H2L 4M1, 1995 Nature Publishing Group.	
	Matsuura et al., "Altered expression of e-cadherin in gastric cancer tissues and carcinomatous fluid," Brit. J. Cancer, 66:1122-1130, 1992.	
	Mercer, "Cell cycle regulation and the p53 tumor suppressor protein," Critic. Rev. Eukar. Gene Express, 2:251-263, 1992.	
	Mets et al., "Submillisecond Detection of Single Rhodamine Molecules in Water," J. Fluoresc., 4:259-264 (1994).	
	Mincheff et al., "Naked DNA and adenoviral immunizations for immunotherapy of prostate cancer: a phase I/II clinical trial," Eur. Urol., 38:208-217, 2000.	
	Mori et al., "Frequent somatic mutation of the MTS1/CDK4I (Multiple Tumor suppressor/Cyclin dependent Kinase 4 Inhibitor) gene in esophageal squamous cell carcinoma," Cancer Res., 54:3396-3397, 1994.	
	Morrison et al., "Complete DNA sequence of canine adenovirus type 1," J. Gen. Virol., 78:873-878, 1997.	
	Murakami et al., "Quantitation of Adenovirus DNA and Virus Particles with the Pico Green Fluorescent Dye" Analytical Biochemistry, 274:283-288 (1999).	
	Murphy et al., "Virus taxonomy, in B.N. Fields et al. (ed.), Fields Virology, 3rd edition Philadelphia: Lippencott-Raven Publishers: Table 6, pp.51-54, 1996.	
	Neuhauser et al., "Correlation Between Fluorescence Intermittency and Spectral Diffusion in Single Semiconductor Quantum Dots," Phys. Rev. Lett., 85:3301-3304 (2000).	
	Nguyen et al., "Detection of Single Molecules of Phycoerythrin in Hydrodynamically Focused Flows by Laser-Induced Fluorescence," Anal. Chem., 59:2158-2161 (1987).	
	Nicolau et al., "Liposome-mediated DNA transfer in eukaryotic cells," Biochem. Biophys. Acta, 721:185-190, 1982.	
	Nicolau et al., "Liposomes as carriers for in vivo gene transfer and expression," Methods Enzymol., 149:157-176, 1987.	
	Nie et al., "Probing Individual Molecules with Confocal Fluorescence Microscopy," Science, 266:1018-1021 (1994).	

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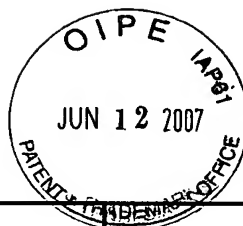
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First Named Inventor	Shuyuan Zhang
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Attorney Docket Number	29853/37706

Sheet	7	of	9
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	Nobori et al., "Deletions for the cyclin-dependent kinase-4 inhibitor gene in multiple human cancers," Nature, 368:753-756, 1994.	
	Novagen & Calbiochem., Sample Preparation Tools for Protein Research, 2nd Edition, 54-110 (2006).	
	Obrink, "C-CAM (cell-CAM 105) - a member of the growing immunoglobulin superfamily of cell adhesion proteins," BioEssays, 13:227-233, 1991.	
	Odin et al., "Quantitative determination of the organ distribution of the cell adhesion molecule cell-CAM 105 by radioimmunoassay," Exp. Cell Res., 171:1-15, 1987.	
	Okamoto et al., "Mutations and altered expression of p16INK4 in human cancer," Proc. Nat. Acad. Sci. USA, 91:11045-11049, 1994.	
	Orlow et al., "Chromosome 9 allelic losses and microsatellite alterations in human bladder tumors," Cancer Res., 54:2848-2851, 1994.	
	Parks et al., "A helper-dependent system for adenovirus vector production helps define a lower limit for efficient DNA packaging," J. Virol., 71:3293-3298, 1997.	
	Paskind et al., "Dependence of moloney murine leukemia virus production on cell growth," Virology, 67:242-248, 1975.	
	Peck et al., "Single-Molecule Fluorescence Detection: Autocorrelation Criterion and Experimental Realization with Phycoerythrin," Proc. Natl. Acad. Sci. USA, 86:4087-4091 (1989).	
	Perales et al., "Gene transfer in vivo: sustained expression and regulation of genes introduced into the liver by receptor-targeted uptake," Proc. Nat. Acad. Sci. USA, 91:4086-4090, 1994.	
	Petrof, "Respiratory muscles as a target for adenovirus-mediated gene therapy," Eur. Respir. J., 11:492-497, 1998.	
	Potter et al., "Enhancer-dependent expression of human k immunoglobulin genes introduced into mouse pre-B lymphocytes by electroporation," Proc. Nat. Acad. Sci. USA, 81:7161-7165, 1984.	
	Racher et al., "Culture of 293 cells in different culture systems: cell growth and recombinant adenovirus production," Biotechnology Techniques, 9:169-174, 1995.	
	Reddy et al., "Nucleotide sequence and transcription map of porcine adenovirus type 3," Virology, 251:414-426, 1998.	
	Renan, "Cancer genes: current status, future prospects, and applications in radiotherapy/oncology," Radiother. Oncol., 19:197-218, 1990.	
	Reshetnyak et al., "Decomposition of Protein Tryptophan Fluorescence Spectra into Log-Normal Components. II. The Statistical Proof of Discreteness of Tryptophan Classes in Proteins," Biophysical J., 81:1710-1734 (2001).	
	Ridgeway, "Mammalian expression vectors," In: Rodriguez RL, Denhardt DT, ed. Vectors: A survey of molecular cloning vectors and their uses. Stoneham: Butterworth, pp.467-492, 1988.	
	Rippe et al., "DNA-mediated gene transfer into adult rat hepatocytes in primary culture," Mol. Cell Biol., 10:689-695, 1990.	
	Robbins et al., "Viral vectors for gene therapy," Pharmacol. Ther., 80:35-47, 1998.	
	Robbins et al., "Viral vectors for gene therapy," Trends Biotechnol., 16:35-40, 1998.	
	Sagrera et al., "Study of the influence of salt concentration on Newcastle disease virus matrix protein aggregation," Biochem. Mol. Biol. Int., 46:429-435, 1998.	
	Sastry et al., "Evaluation of Plasmid DNA Removal from Lentiviral Vectors by Benzonase Treatment," Human Gene Therapy, 15:221-226 (2004)	
	Schwille et al., "Molecular Dynamics in Living Cells Observed by Fluorescence Correlation Spectroscopy with One-and Two-Photon Excitation," Biophys. J., 77:2251-2265 (1999).	
	Serrano et al., "A new regulatory motif in cell-cycle control causing specific inhibition of cyclin	

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	D/CDK4," Nature, 366:704-707, 1993.	
	Serrano et al., "Inhibition of ras-induced proliferation and cellular transformation by p16INK4," Science, 267:249-252, 1995.	
	Shabram et al., "Analytical anion-exchange HPLC of recombinant type-5 adenoviral particles," Human Gene Therapy, 8:453-465, 1997.	
	Sonnleitner et al., "Imaging Individual Molecules by Two-Photon Excitation," Chem. Phys. Lett., 300:221-226 (1999).	
	Stewart et al., "Adenovector-mediated gene delivery of interleukin-2 in metastatic breast cancer and melanoma: results of a phase 1 clinical trial," Gene Ther., 6:350-363, 1999.	
	Takahashi et al., "Wild-type but not mutant p53 suppresses the growth of human lung cancer cells bearing multiple genetic lesions," Cancer Res., 52:2340-2342, 1992.	
	Tanaka et al., "Simple fluorescent enzyme immunoassay for detection and quantification of hepatitis C viremia" J. of Hepatology, 23: 742-745 (1995).	
	Tur-Kaspa et al., "Use of electroporation to introduce biologically active foreign genes into primary rat hepatocytes," Mol. Cell Biol., 6:716-718, 1986.	
	Umbas et al., "Expression of the cellular adhesion molecule E-cadherin is reduced or absent in high-grade prostate cancer," Cancer Res., 52:5104-5109, 1992.	
	Vanderkwaak et al., "Immune directed therapy for ovarian carcinoma," Curr. Opin. Obstet. Gynecol., 11:29-34, 1999.	
	Vanlandschoot et al., "pH-dependent aggregation and secretion of soluble monomeric influenza hemagglutinin," Arch. Virol., 143:227-239, 1998.	
	Vossen et al., "Sequestration stabilizes lac repressor-DNA complexes during gel electrophoresis," Anal. Biochem., 245:85-92, 1997.	
	Wagner et al., "Antisense gene inhibition by oligonucleotides containing C-5 propyne pyrimidines," Science, 260:1510-1513, 1990.	
	Wagner et al., "Transferrin-polycation conjugates as carriers for DNA uptake into cells," Proc. Nat. Acad. Sci. USA, 87(9):3410-3414, 1990.	
	Watt et al., "Human prostate-specific antigen: structural and functional similarity with serine proteases," Proc. Nat. Acad. Sci. USA, 83(2):3166-3170, 1986.	
	Weinberg, "Tumor suppressor genes," Science, 254:1138-1145, 1991.	
	Wennmalm et al., "Conformational Fluctuations in Single DNA Molecules," Proc. Natl. Acad. Sci. USA, 94:10641-10646 (1997).	
	Wennmalm et al., "UV-Fluorescence Correlation Spectroscopy of 2-Aminopurine," Biol. Chem., 382:393-397 (2001).	
	Wills et al., "Development and Characterization of Recombinant Adenoviruses Encoding Human p53 for Gene Therapy of Cancer," Human Gene Therapy, 5:1079-1088 (1994).	
	Wilson, "Vehicles for gene therapy," Nature, 365:691-692, 1993.	
	Wilson, "When bad gene transfer is good," J. Clin. Invest., 98:2435, 1996.	
	Wong et al., "Appearance of b-lactamase activity in animal cells upon liposome mediated gene transfer," Gene, 10:87-94, 1980.	
	Wu et al., "Evidence for targeted gene delivery to HepG2 hepatoma cells in vitro," Biochemistry, 27:887-892, 1988.	
	Wu et al., "Liver-directed gene delivery," Adv. Drug Delivery Rev., 12:159-167, 1993.	
	Wu et al., "Receptor mediated in vitro gene transfections by a soluble DNA courier system," J. Biol. Chem., 262:4429-4432, 1987.	
	www.sterlitech.com/generalfaq.htm	
	Yang et al., "In vitro gene transfer to mammalian somatic cells by particle bombardment," Proc. Nat. Acad. Sci. USA, 87:9568-9572, 1990.	

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		Yotnda et al., "Efficient infection of primitive hematopoietic stem cells by modified adenovirus," Gene Ther., 8:930/937, 2001.	
		Yu et al., "Unmasking Electronic Energy Transfer of Conjugated Polymers of Suppression of O2 Quenching," Science, 289:1327-1330 (2000).	
		Zhang et al., "Adenovirus Inhibition of Cell Translation Facilitates Release of Virus Particles and Enhances Degradation of the Cytokeratin Network", Journal of Virology, Apr. 1994, p. 2544-2555, 00022-538X/94, 1994 American Society for Microbiology, Department of Biochemistry and Kaplan Cancer Center, New York University School of Medicine, New York, New York 10016.	
		Zheng et al., "Transcription units of E1a, E1b and pIX regions of bovine adenovirus type 3," J. Gen. Virol., 80:1735-1742, 1999.	

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